Species Datasheet

Datasheet No. P-006.002.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Ophioglossum nudicaule* L.f.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Ophioglossumnudicaule var. *tenerum* (Mett. ex Prantl) R.T. Clausen
Ophioglossumnudicaule var. *vulcanicum* R.T. Clausen
*Ophioglossumtenerum*Mett. ex Prantl

3.Systematic Position:
Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Ophioglossidae Klinge
- Order: Ophioglossales Link
- Family: Ophioglossaceae Martinov.
- Subfamily:
- Genus: *Ophioglossum* L.
- Species: *Ophioglossum nudicaule* L.f.
- Subspecies:
- Variety:

4.Distribution:

Global: China; India; Indonesia; Malaysia; Thailand

India: Darjeeling, Himachal Pradesh, Jammu-Kashmir, Jharkhand, Karnataka, Kerala, Sikkim, Tamil Nadu

5.Indigenous/Exotic/Endemic;Cultivated/Wild:

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: It grows fully exposed sandy soil along the river and in laterite areas during the wet season

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):x=30 (palaeobasic)[4], 120 (Neobasic)[4]

13. Zygotic chromosome number(s):2n=720[4]

14. Gametic chromosome number(s):n=116 [6, 9, 11] ,

120[6, 9, 11, 19, 20, 28] ,

124 [9, 11] ,

c.240[48] ,

240[22, 27, 28],

c.350 [33, 34] ,

360[4, 5],

c.500[2, 41, 42]

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

Image file

16.Ploidylevel: Octoploid (aneuploid)/Diploid (aneuploid)[6, 9, 11] ,

Octoploid/Diploid [6, 9, 11, 19, 20, 28] ,

24-ploid/Hexaploid[5, 33, 34],

32-ploid/Octoploid (aneuploid) [2, 41, 42]

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):

21.Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

Image file

22. Banding pattern(s):

Image file

23.Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization:

Image file

24.Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26.Chromosome associations:

Female meiosis

Male meiosis Octoploid (aneuploid)/Diploid (aneuploid): 116II [6, 9, 11] ,

Octoploid/Diploid**:**120II[6, 9, 11, 19, 20, 28] ,

16-ploid/Tetraploid :240II[22, 27, 28] ,

24-ploid/Hexaploid: 360II [5]Ghatak 1977 ,

32-ploid/Octoploid (aneuploid) : c.500II [2, 41, 42]

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationsetc.):